

中国荚蒾属 (*Viburnum*) 的新植物*

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SOME NEW PLANTS OF CHINESE VIBURNUM

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圆锥花序组 Sect. *Thyrsosma* (Rafin.) Rehd.

红荚蒾

Viburnum erubescens Wall. Pl. As. Rar. 2:29, t. 134 (1830).

(1) 红荚蒾(原变种)

var. *erubescens*

(2) 短筒变种 新变种

var. *brevitubum* Hsu, var. nov.

Differt a varietatibus *erubescenti* et *prattii* (Grabn.) Rehd. praecipue corolla brevior, tubuloso-campanulata, nec infundibuliforme, foliis minoribus.

Folia elliptico usque anguste oblona, interdum rotundato-elliptica vel subrotundata, 3—7.5 cm longa, 2—3 cm lata, apice acuminata vel abrupte acuta, basi obtusa usque subrotundata, margine minus serrata supra basin 2/3 integra; corolla alba, leviter purpureascens, tubuloso-campanulata, circ. 6 mm diametro, tubo circ. 4 mm longo, lobis late ovatis, circ. 2.5 mm longis et latis, antheris purpureis.

Hupei: Hsing-shan (兴山), alt. 1680m, foot of Mt. Lao-tou-shan (老头山), in ravine, erect shrub, 3—4m high, flowers bluish-white, 27. V. 1957, Y. Liou (刘瑛) 494 (Type, HP**), 497 (HP); Pa-tung (巴东), K. H. Fu & C. C. Chang (傅国勋、张志珍) 870, 1055 (HP); Wu-shan (巫山), K. H. Yang (杨光辉) 58019, 58064 (HP).

Szechuan: Cheng-kow (城口), T. L. Dai (戴天伦) 100341 (HP); Feng-kieh (奉节), C. Y. Chang (张泽荣) 25315 (HP).

Kiangsi: Wu-kung-shan (武功山), Inst. Bot. Kiangsi Exped. (植物所江西队) 128, 423 (HP).

Kweichow: Fan-tsing-shan (梵净山), C. S. Sin (辛景三) 51562 (HSC***).

与原变种红荚蒾 var. *erubescens* 及紫药变种 var. *prattii* (Grabn.) Rehd. 的主要区别在其花冠较短, 筒状钟形, 非漏斗形, 叶较小。

峨眉荚蒾 新种

Viburnum omeiense Hsu, sp. nov.

Species bracteis foliaceis viridibus, floribus numerosis congestis valde peculiaris. Nulli aliae speciei arcte affine.

* 笔者于1961—1962年在北京中国科学院植物研究所从事荚蒾属的分类研究工作期间, 承鍾补求教授在百忙中惠予指导, 特此致以深切的谢意。

** HP=Herb. Inst. Bot., Acad. Sin., Peking.

*** HSC=Herb. Inst. Bot. South China, Acad. Sin., Canton.

Frutex 0.7 m altus, fere glaber. Rami ramulique cinereo-flavidi, lenticellis orbicularibus tuberculatis conspersi; ramuli teretes vel subangulati. Gemmae biperulatae. Folia crasse papyracea, oblonga, 3—7 cm longa, 1.5—3 cm lata, apice breve acuta, basi cuneata, margine remote crenato-serrata, supra basin integra, supra viridia opaca, subtus pallidiora, costa media utrinque elevata, nervis lateralibus utrinsecus circ. 4, arcuatis anastomosantibus, supra inconspicuis vel leviter impressis, subtus tenuiter elevatis; petioli 5—10 mm longi, rubelli. Cyma paniculiformis, 3.5 cm longa, 4.5 cm lata, multiflora, pedunculo circ. 2 cm longo; flores numerosi congesti, sessiles, basi bracteis bracteolisque oppositis suffulti; bractee foliaceae, virides, oblongae, 1.8 mm longae et 0.8 mm latae, apice obtusae et interdum ad marginem parce ciliolatae, basi rubrae, costa media nervisque obscuris, in costa media pilis paucis fasciculatis praeditae; bracteolae minutissimae squamiformes; ovarium circ. 1.8 mm longum; calycis lobi late ovati, 0.8 mm longi, apice acutiusculi; corolla hypocrateriformis, alba, tubo 3.5 mm longo, lobis ovato-orbicularibus, circ. 1 mm longis, apice rotundatis, inaequalibus, 1 paulo majore; stamina ad faucem corollae affixa, filamentis brevissimis, antheris pallide flavidis, elliptico-oblongis, 1 mm longis; stylus brevis, validus, stigmate leviter 3-lobulato, calycem paululo superante vel incluso. Fructus non visi.

Szechuan: Omei-shan (峨眉山), Ehr-o-shan (二峨山), Shih-shan (师山), rare, 12. XI. 1952, G. H. Hsiung (熊济华) 33631 (Type, HP).

这是一个非常特出的种, 可凭其绿色的叶状苞和极其稠密的花序从同组内的其它种区别开来。

秦氏荚蒾 新种 图版十

Viburnum chingii Hsu, sp. nov. Pl. 10.

?*Viburnum erubescens* Wall. var. *neurophyllum* Hand.-Mazz. Symb. Sin. 7: 1033 (1936).

(1) **秦氏荚蒾** (原变种)

var. **chingii**

Proximum forsitan *V. erubescens* Wall: sed differt foliis subcoriaceis persistentibusque, crenato-serrulatis, supra plus minusve nitentibus, nervis primariis ante marginem prorsus curvatis et conjunctis.

Frutex 2.5 m altus, ramulis hornotinis, foliis subtus in costa nervisque, petiolis, inflorescentiisque primo sparse flavido-fasciculato-puberulis, deinde glabrescentibus. Ramuli teretes, hornotini albido-flavidi, annotini griseo-brunnei, glabri. Folia subcoriacea, elliptica vel ovato-elliptica vel obovato-elliptica, 3.5—9 cm longa, 2—4.5 cm lata, apice acuta vel obtusa, basi late cuneata vel obtusa, margine crenato-serrata, supra basin integra, serraturis mucronulatis, supra viridia, subtus pallidiora, nervis primariis utrinsecus 6, anastomosantibus, sicut costa media supra parum impressis, subtus prominente elevatis, nervis secundariis transversis; petioli 1—2 cm longi. Cyma paniculiformis, terminalis, 4.5—5 cm longa, pedunculo compresso, 3.5—4.5 cm longo; bractee bracteolaeque lanceolatae, mem-

branaceae, ciliolatae; flores suaveolentes, in radiis ordinis secundi siti, plerumque sessiles; ovarium glabrum, campanulato-cylindricum, circ. 3 mm longum; calycis lobi brevi, ovato-triangulari, obtusi; corolla alba, infundibuliformis, circ. 6 mm diametro, tubo 7 mm longo, lobis late ovatis, 2 mm longis, apice rotundatis; stamina tubo corollae subaequilonga, antheris nigro-purpureis, oblongis, 1.5 mm longis; stylus validus, conicus, calycem superans, stigmatibus capitato. Drupa rubra, obovoidea, circ. 8 mm longa et 6 mm crassa, putamine compresso, 7 mm longo, 4 mm lato, margine incurvato, ventre valde et late 1-sulcato.

Yunnan: Sung-ming (嵩明), P. Y. Chiu (邱炳云) 55019 (HP, HKM*), F. S. Liou (刘伟心) 51277 (HSC), T. T. Yü (俞德浚) 15989, 15992, 16154, 16165 (HKM); Chan-yi (霏益), Y. W. Li (李延辉) 142 (HP, HKM); Teng-chuan (邓川), R. C. Ching (秦仁昌) 24913 (HKM); Erh-yuan (洱源), H. C. Wang (王汉臣) 2350 (HP), 3896 (HSC), R. C. Ching (秦仁昌) 23211 (HKM), H. T. Tsai (蔡希陶) 57813 (HSC, HN**); Kien-chuan (剑川), R. C. Ching (秦仁昌) 23099 (HKM); Ho-king (鹤庆), K. M. Feng (冯国楣) 759 (HKM); Ta-li (大理), H. C. Wang (王汉臣) 1811, 4705 (HSC); Li-kiang (丽江), K. M. Feng (冯国楣) 20255 (HKM); Pin-chuan (宾川), H. T. Tsai (蔡希陶) 52907 (HKM, HN), R. C. Ching (秦仁昌) 24948 (HKM), T. N. Liou (刘慎謩) 17775, 17813, 21709, 21791 (HP); Sün-tien (寻甸), Y. P. Chang (张英伯) 854 (HKM, HSC); Wen-shan (文山), K. M. Feng (冯国楣) 11179 (HKM, HP); King-tung (景东), M. K. Li (李鸣岗) 3547 (HKM); Kun-ming (昆明), P. Y. Chiu (邱炳云) 50178 (HP, HKM), 51927 (HP), 54466 (HP, HF***), T. N. Liou (刘慎謩) 15899, 15903, 16466 (HP); Shwang-po (双柏), T. C. Huang (黄蜀琼) 176 (HKM); Lan-ping (兰坪), H. T. Tsai (蔡希陶) 54032 (HSC); Yang-pi (漾濞), mountain slope, in mixed woods, shrub, 7 feet high, flowers white, fragrant, 23. IV. 1940, R. C. Ching (秦仁昌) 22347 (Type, HKM); Shun-ning (顺宁), T. T. Yü (俞德浚) 15989, 15992, 16165 (HKM), 16154 (HKM, HP); Cheng-kiang (澄江), T. T. Yü (俞德浚) 16851 (HP), 16861, 17209 (HKM), 17052 (HKM, HP), C. W. Wang (王启无) 72555 (HSC, HN); without precise locality, H. T. Tsai (蔡希陶) 54032 (HKM, HP), 55938, 57813 (HKM), T. N. Liou (刘慎謩) 14309, 21709 (HSC), Y. Tsiang (蒋英) 13158 (HSC, HN).

可能和红荚蒾 *V. erubescens* Wall. 最接近, 但本种的叶为亚革质, 常绿, 边有钝锯齿, 上面多少光亮, 侧脉未达边缘前向前弯曲而相连接, 与那一种不同。

(2) 展齿变种 新变种 图版十

var. *patentiserratum* Hsu, var. nov. Pl. 10

A varietate praecedenti recedit foliis margine patente argute serratis. Foliorum forma cum *V. oligantho* Batal. comparabilis sed latior, serraturis densioribus, apicibus dentum haud incurvatis, pedunculo brevior, floribus congestioribus differt.

Folia obovata, anguste obovata usque obovato-oblonga, 5—8 cm longa, 2.5—4 cm lata, apice subito in cuspidem brevem transieuntia, supra medium latiora, basi cuneata vel late cuneata, margine supra basin patente arguteque serrata.

Yunnan: Yung-shan (永善), alt. 2500m, in ravine, small tree, 25 feet high, trunk 5 inches in diameter, flowers white, 10. V. 1933, H. T. Tsai (蔡希陶) 52789 (Type, HSC; HKM); Meng-hua (蒙化), Y. Tsiang (蒋英) 11981 (HSC, HN), H. C. Wang (王汉臣) 2143 (HSC); Lu-chuan (禄劝), P. Y. Mao (毛品一) 1440 (HKM); Ta-li (大理), Y. Tsiang (蒋英) 11692 (HSC); Chan-yi (霏益), Y. W. Li (李延辉) 201 (HKM); Sung-ming (嵩明), P. W. Yu & P. Y. Chiu (禹平华、邱炳云) 124 (HKM), P. Y. Chiu (邱炳云) 51508, 55172 (HP); Lan-ping (兰坪), H. T. Tsai (蔡希陶) 54002, 56285 (HSC, HKM, HP, HN); Kun-ming (昆明), T. N. Liou (刘慎謩) 14509 (HP); without precise locality, T. N. Liou (刘慎謩) 17947 (HSC).

* HKM=Herb. Kunming Branch, Inst. Bot., Acad. Sin., Kunming.

** HN=Herb. Inst. Bot. Nanking, Acad. Sin., Nanking.

*** HF=Herb. Depart. Biol., Fudan Univ., Shanghai.

李延辉 201 的叶呈狭长圆形,两端渐狭,长达 10.5 厘米。

与原变种 var. *chingii* 之区别,在于其叶缘有开展尖锯齿。其叶形可与少花荚蒾 *V. oliganthum* Batal. 相比,但较宽,锯齿较密,齿顶不内弯,总花梗较短,花较密。

肉叶荚蒾 新等级与新种

Viburnum carnosulum (W. W. Smith) Hsu, stat. et sp. nov.

Viburnum erubescens Wall. var. *carnosulum* W. W. Smith in Notes Bot. Gard. Edinb. 9: 138 (1916).

A *V. erubescens* Wall. differt notis sequentibus: (a) foliis firme chartaceis usque subcoriaceis, haud membranaceis, minoribus, fere glabris, nervis lateralibus paucioribus, utrinsecus 4—5 (nec 7—9), anastomosantibus; (b) inflorescentia minore, pedunculo multo brevior, floribus magis congestioribus; (c) stylo calyce fere aequilongo, non eum prominenter superanto.

Frutex vel arbor parva, ad 2 m alta, ramulis annotinis petiolisque primo pilis flavidis fasciculatis obtectis, dein glabrescentibus. Ramuli griseo-brunnei vel fulvi, hornotini angulati, annotini teretes, glabri. Gemma hiemalis major, perulis 2 ovato-lanceolatis oblecta. Folia in sicco firme chartacea vel subcoriacea, elliptica usque oblongo-elliptica, 3—6.5 cm longa, 1.5—2 cm lata, apice acuminata usque breve acuta, basi late cuneata, margine remote serrata, supra basin 1/3 integra, supra viridia, glabra, subtus pallidiora, glabra vel primo in costa media nervisque parum fasciculato-puberula, nervis primariis utrinsecus 4—5, arcuatis et saepe inter se anastomosantibus, supra inconspicuis, subtus elevatis, nervis secundariis utrinque inconspicuis; petioli 5—8 mm longi. Cyma paniculiformis, terminalis, 1.5—2.5 cm longa et lata, flavido-fasciculato-pubescent, pedunculo pilis densioribus oblecto, 1—2 cm longo; bracteae bracteolaeque membranaceae, lineares, ciliolatae; flores dilute rosei, suaveolentes, multi in radiis ordinis primarii siti, congesti; ovarium glabrum, cylindricum, circ. 3 mm longum; calycis lobi ovati, circ. 1 mm longi, apice obtusi; corolla hypocrateriformis, circ. 6 mm diametro, tubo circ. 5.5 mm longo, lobis late ovatis, apice rotundatis, patentibus; stamina antheris corollae tubum paulo superantia, flavidis, ellipsoideis; stylus cylindricus, stigmatibus capitato, calyce subaequilongo. Drupa rubra, compresso-ellipsoidea, circ. 6 mm longa et 4 mm lata, putamine 5—6 mm longo et 3—3.5 mm lato, ventre valde 1-sulcato.

Yunnan: Teng-yueh (腾越), G. Forrest 9808 (HSC); Shun-ning (顺宁), T. T. Yü (俞德浚) 16019, 16163 (HKM), C. W. Wang (王启元) 72053 (HKM, HN); between Sha-yang (杉阳) and Chu-tong (曲洞) Valleys, G. Forrest 5520 (Iso-syntype, HP).

本种与红荚蒾 *V. erubescens* Wall. 的区别在于下列各点: (a) 叶硬纸质至亚革质, 非膜质, 较小, 近无毛, 侧脉较少, 4—5 (非 7—9) 对, 互通; (b) 花序较小, 总花梗较短, 花远较密集; (c) 花柱与萼几等长而非显著超出。

管花荚蒾 新种 图版十一

Viburnum tubulosum Hsu, sp. nov. Pl. 11.

Putaminis forma in genere valde peculiaris. Simillimum forsitan *V. taitoensi* Hayata quod differt ramulis inflorescentiisque pilis fulvis fasciculato-tomentoso-pubescentibus, corolla tubuloso-campanulata, tubo brevior, 5—6 mm longo, 2 mm lato.

Frutex ad 0.6 m altus. Rami ramulique albido-grisei, lenticellis prominulis elevatis conspersi; ramuli hornotini striato-angulati, sparsim minuteque fasciculato-puberuli. Folia chartacea, oblonga vel obovato-oblonga, 6—10 cm longa, 2.5—4 cm lata, apice breve acuta usque subrotundata, basi late cuneata usque subrotundata, margine supra medium serrulata, supra laete viridia, glabra, subtus pallidiora, in costa media nervisque sparsissime minuteque fasciculato-puberula, nervis primariis utrinsecus 4, arcuatis, prope marginem incurvatis et inter se anastomosantibus, sicut costa media supra valde impressis, subtus distincte elevatis; petioli 6—10 mm longi, initio fasciculato-puberuli, mox glabrescentes. Cyma paniculiformis, terminalis, circ. 3 cm longa, 2 cm lata, pauciflora, fasciculato-puberula, pedunculo gracile, 2 cm longo; bractee bracteolaeque lanceolatae usque triangulari-lanceolatae, parum fasciculato-puberuli; ovarium cylindrico-campanulatum, circ. 2 mm longum et 1 mm latum, glabrum; calycis lobi deltoidei, circ. 1 mm longi ac lati, obtusi, ciliolati; corolla alba, infundibuliformis, 6 mm diametro, glabra, tubo 9 mm longo, 1.5 mm lato, lobis subrotundatis, tubo circ. 3-plo brevioribus; stamina ad faucem corollae affixa, filamentis brevissimis, antheris oblongis, circ. 1.3 mm longis; stylus cylindricus, lobos calycinos valde superans, stigmate capitato. Drupa rubra, late ellipsoidea, 9 mm longa, 6 mm crassa, putamine 7 mm longo, 5 mm lato, in sectione transversali subhexagono, ventre profunde tubuliformi-canaliculato.

Hunnan: Ki-yang (祁阳), Y. Tsiang & S. C. Chun (蒋英、陈少卿) 787 (HSC); I-chang (宜章), W. T. Tsang (曾怀德) 23391 (HSC); Lan-shan (蓝山), P. C. Tsoong (鍾补勤) 849 (HP).

Kwangsi: Hsing-an (兴安), Inst. Bot. Kwangsi Exped. (植物所广西调查队) 815, 2475 (HP), Z. S. Chung (鍾济新) 81753 (HSC, HK*); Kwei-lin (桂林), Liang-fung (良丰), grassland, shrub, 1—2 feet high, flowers white, 16. III. 1948, C. N. Teng (邓志农) 13364 (Type, HSC), 13370 (HSC), Huang, Chia & Ho (黄、贾、何) 130210 (HSC); Lin-kwei (临桂), S. F. Liang (梁畴芬) 30329 (HSC, HK), L. C. Chun & Y. P. Hsu (陈立卿、徐月邦) 10151 (HSC).

Taiwan: Mt. Taiha, S. Suzuki (铃木重良) s. n., 3. VIII. 1934 (HP. no. 82140).

此种果核形状在整个属内非常突出。它也许和 *V. taitoense* Hayata 最为相似, 但那一种的小枝和花序均被黄褐色绒毛状短簇毛, 花冠筒状钟形, 冠筒较短, 长 5—6 毫米, 宽 2 毫米。

长圆荚蒾 新种

Viburnum oblongum Hsu, sp. nov.

Proximum videtur *V. tengyuehensi* (W. W. Smith) Hsu infra descripto, quod ramulis petiolisque fasciculato-puberulis, foliis subtus in axillis nervorum pilis flavidis fasciculatis congestis instructis, pedunculo brevior ad 4 cm longo, haud compresso, stylo persistenti calycem haud superante clare differt.

* HK=Herb. Inst. Bot. Kwangsi, Yen-shan, Kwangsi Prov.

Frutex circ. 1 m altus. Rami cortice flavido-albi, lenticellis orbicularibus elevatis conspersis tecti; ramuli leviter fasciculato-pubescentes. Gemmae puberulae. Folia firme chartacea, elliptico- vel obovato-oblonga, 7—10 cm longa, 2.5—3.5 cm lata, apice breve acuminata usque breve acuta, basi late cuneata usque obtusa, margine dentibus patentibus acute serrata, basi integra, supra viridia, laevia, subtus pallidiora, glabra, nervis primariis utrinsecus 5—6, sub angulis 20° divergentibus, supra parum impressis, subtus elevatis; petioli 10—12 mm longi, glabri. Cyma paniculiformis, terminalis, in fructu 4—6.5 cm longa, circ. 4 cm lata, fulvo-fasciculato-tomentosa, pedunculo 4—5.5 cm longo, valde compresso; bractae ovato-usque lineari-lanceolatae, parum ciliolatae, in fructu persistentes; flores ignoti. Drupa ovoideo-ellipsoidea, circ. 6 mm longa, 3.5 mm lata, apice calyce styloque persistentibus coronata, dentibus calycinis triangulari-ovatis, apice obtusiusculis, stylo cylindrico, circ. 1 mm longo, stigmatibus capitato, calycem paulo superante, leviter 2-lobulato.

Yunnan: Shwang-po (双柏), H. T. Tsai (蔡希陶) 54436 (HP, HKM, HSC, HN), 59118 (HP, HKM, HSC); Cheng-kiang (澄江), T. T. Yü (俞德浚) 17052 (HP); Kung-shan (贡山), K. M. Feng (冯国楣) 8428 (HP); Wei-si (维西), Yen-wa (岩瓦), margin of ravine, in mixed woods, common, shrub, 1.3 m high, 5. X. 1940, K. M. Feng (冯国楣) 8729 (Type, HP; HKM).

本种看来当与腾越荚蒾 *V. tengyuehense* (W. W. Smith) Hsu 最接近,但那个种的小枝与叶柄均被簇状小柔毛,叶下面脉腋有淡黄色簇聚毛,总花梗较短,长达4厘米,不扁,花柱宿存,长不超过萼,可与本种明显区分。

腾越荚蒾 新等级与新种

Viburnum tengyuehense (W. W. Smith) Hsu, stat. et sp. nov.

Viburnum brachybotryum Hemsl. var. *tengyuehense* W. W. Smith in Notes Bot. Gard. Edinb. 9:137 (1916).

Simillimum *V. oblongo* Hsu supra descripto quod etiam ramulis petiolisque fere glabris, foliis subtus in axillis nervorum haud barbigeris, pedunculo longiore, 4—5.5 cm longo, compresso, stylo lobum calycinum superante differt. *V. brachybotryum* Batal. foliis coriaceis majoribus, inflorescentia pyramidale, ampliore, pedunculo compresso, ovario calyce corollaque toto pilis fasciculatis tectis, stylo calycem valde superante, fructibus ovoideis, majoribus, circ. 10 mm longis et 6 mm latis valde diversum.

Frutex ad 7 m altus. Rami albo-flavidi; ramuli fasciculato-tomentosi. Gemmae perulis 2 subulatis cincta. Folia in sicco firme chartacea, oblonga vel ovato-oblonga vel obovato-oblonga, 7—11 cm longa, 2.5—5 cm lata, apice acuminata, basi rotundata vel late cuneata, margine patente serrata, supra opace viridia, glabra vel subglabra, subtus pallide viridia, in axillis nervorum pilis flavidis fasciculatis congestis instructa, nervis primariis utrinsecus 4—5, arcuatis, juxta marginem prorsus curvatis et inter se anastomosantibus, sicut costa media supra impressis, subtus elevatis, nervis secundariis transversis, subtus prominenter elevatis; petioli 1—2 cm longi, fasciculato-puberuli. Cyma paniculiformis, ramulum lateralem bifoliatum terminans, 2.5—3 cm longa, 3—3.5 cm lata, fulvo-fasciculato-tomentosa, pedunculo 1.5—2 cm longo, in fructu ad 3 cm longo; bractae ovato-lanceolatae, extus

minute puberulae, persistentes; ovarium cylindricum, circ. 2.5 mm longum, glabrum; calycis lobi triangulares, acutiusculi, circ. 0.7 mm longi et lati; corolla alba, rotata, circ. 4.5 mm diametro, lobis ovato-rotundatis, circ. 2 mm longis, 1.8 mm latis, tubo duplo longioribus; stamina corolla fere aequilonga, filamentis gracilibus, antheris ellipsoideis; stylus conicus, validus, stigmatibus lobis calycinis aequilongo. Drupa rubra, oblonga, circ. 7 mm longa et 5 mm lata, putamine circ. 6 mm longo et 4 mm lato, dorso leviter, ventre valde 1-sulcato.

Yunnan: Shwang-po (双柏), H. T. Tsai (蔡希陶) 59187 (HP); Ping-pien (屏边), H. T. Tsai (蔡希陶) 62565 (HP, HSC, HN, HKM), 62572 (HP, HSC, HKM), 62596 (HP, HN, HKM); Yang-pi (漾濞), H. C. Wang (王汉臣) 3768 (HP, HSC); Meng-hua (蒙化), H. C. Wang (王汉臣) 3694 (HP); between Jui-li (瑞丽) and Teng-yueh (腾越), G. Forrest 8216 (Isotype, HSC); Teng-yueh (腾越), G. Forrest 8756 (HSC).

此种与上述长圆荚蒾 *V. oblongum* Hsu 最为近似, 然而那个种的小枝与叶柄几无毛, 叶下面脉腋无髯毛, 总花梗较长, 长 4.5—5 厘米, 扁, 花柱长超过萼裂。短球荚蒾 *V. brachybotryum* Batal. 的叶革质, 较大, 花序尖塔形, 较大, 总花梗扁, 子房、萼与花冠均被簇状毛, 花柱远超于萼, 果卵圆形, 较大, 长约 10 毫米, 宽约 6 毫米, 与本种迥然有别。

伞房荚蒾 新种 图版十二

Viburnum corymbiflorum Hsu et S. C. Hsu*, sp. nov. Pl. 12.

(1) 伞房荚蒾 (原亚种)

subsp. *corymbiflorum*

Proximum *V. henryi* Hemsl. quod ramulis nigro-brunneis vel brunneis, foliorum nervis primariis utrinsecus 7—9, inflorescentiis pyramidalis differt. Haud dissimile etiam *V. brachybotryo* Hemsl. differt ramis laevis, foliis tenui oribus glabrisque, inflorescentiis corymbiformibus (nec paniculiformibus) et sparsim puberulis (nec dense fasciculato-pubescentibus). Habitu *V. oligantho* Batal. simile est, quod corollis tubiformibus, inflorescentiis minoribus pauciflorisque, dentibus foliorum paucioribus et distincte incurvatis distat.

Arbor parva 5 m alta, inflorescentiis bracteisque exceptis glabra. Rami ramulique pallide flavida laevesque. Gemmae biperulatae. Folia chartacea, oblonga, 6—10 cm longa, 3—4 cm lata, apice abrupte acuminata, basi rotundata vel late cuneata, margine pauca et recurve argutiserrata, in triente posteriore integra, supra atro-viridia, nitida, subtus pallidiora, nervis lateralibus utrinsecus circ. 4, anastomosantibus, sicut costa media supra impressis, subtus elevatis; petioli circ. 1 cm longi. Cyma corymbiformis, ramulum bifoliatum terminans, 3—4 cm longa, 4—5.5 cm lata, parum fasciculato-puberula, pedunculo 2—4.5 cm longo; bractae bracteolaeque caducae, sparse puberulae; flores suaveolentes, in radiis ordinis tertii siti, longe pedicellati; ovarium cylindricum, circ. 2 mm longum; calycis lobi elliptico-ovati, circ. 1 mm longi, obtusi; corolla alba, rotata, 8 mm diametro, lobis oblongis, circ. 3.5 mm longis, apice rotundatis, tubo circ. $2\frac{1}{2}$ plo longioribus; stamina corolla breviora, 1.5 mm longa, antheris ellipsoideis, flavidis; styli crassi, conici, cum stigmatibus 1 mm longi, stigmatibus capitato, calycem superante. Drupa rubra, ellipsoideo-globosa, 7—

* S. C. Hsu 徐士菊, 前复旦大学学生。

8 mm longa, 5—6 mm lata, putamine obovoideo, 6 mm longo, 4 mm lato, ventre valde 1-sulcato.

Chekiang: Lung-chuan (龙泉), S. Y. Chang (章绍尧) 4500 (HP).

Fukien: Wu-yi-shan (武夷山), M. J. Wang (王名金) 1923, 3303 (HN).

Kiangsi: Hwang-kong-shan (黄冈山), Y. K. Hsiung (熊耀国) 6371 (HP).

Hunnan: Wu-kang (武冈), S. S. Sin (辛树帜) 270 (HSC); Lung-shan (龙山), L. H. Liou (刘林翰) 1658 (HP).

Kwangtung: Yen-hua (仁化), W. T. Tsang (曾怀德) 26219, 26299 (HSC).

Kwangsi: Ling-yun (凌云), A. N. Steward & H. C. Cheo (周鹤昌) 138 (HNU*); North Lu-chuan (陆川), R. C. Ching (秦仁昌) 6032 (HSC, HN), 6059 (HN), 6173 (HSC); Lungsheng (龙胜), H. F. Taam & C. T. Li (覃源富, 李中提) 70190 (HSC, HK), 70935 (HSC); Linglo (凌乐), C. Wang (黄志) 43151 (HF, HSC, HK); Lung-ling (隆林), G. F. Liang & T. L. Wu (梁畴芬, 吴德邻) 32394 (HSC, HK), 32477 (HSC), T. M. Lei & Z. Y. Wei (雷达美, 韦占业) 40835 (HK), Y. K. Li (李荫昆) 421, 449 (HK); Taimiao-shan-hsien (大苗山县), S. H. Chun (陈少卿) 14520 (HK), T. Chen (陈德昭) 114, 294, 352 (HSC, HK); Chuan-hsien (全县), W. T. Tsang (曾怀德) 27700; Z. S. Chung (鍾济新) 82029 (HSC); Lin-kwei (临桂), T. Z. Chen (陈照宙) 51040 (HK).

Szechuan: Chun-lien (筠连), Iping Region Econ. Pl. Exped. (四川经济植物宜宾采集队) 108, 186 (HP); Ping-shan (屏山), F. T. Wang (汪发懋) 22696, Iping Region Econ. Pl. Exped. (四川经济植物宜宾采集队) 955 (HP); O-mei (峨眉), W. P. Fang (方文培) 12658 (HNU), 16514, 16783 (HSC), T. H. To (杜大华) 413 (HF, HN), Y. Y. Ho (贺贤育) 5681, 5870 (HN), H. L. Tsiang & S. S. Chang (蒋兴肇, 张秀实) 31043 (HK), C. W. Hsiung & al. (熊济华等) 30346 (HP), K. W. Yang (杨光辉) 54184 (HSC), 56314 (HP); Nan-chuan (南川), C. W. Hsiung & C. L. Chow (熊济华, 周子林) 90482 (HP); Hsing-wen (兴文), Iping Region Econ. Pl. Exped. (四川经济植物宜宾采集队) 372, 452 (HP); Lei-po (雷波), Liang-shan Region Econ. Pl. Exped. (四川经济植物凉山采集队) 513, 515 (HP); without precise locality, T. Tang (唐进) 231546 (HN).

Kweichow: Ching-chen (清镇), Kiu-lung-shan (九龙山), in open woods, tree 5m high, leaves deep green above, paler below, flowers white, fragrant, 27. IV. 1936, S. W. Teng (邓世纬) 90189 (Type, HSC), 694 (HSC); Yin-kiang (印江), Y. Tsiang (蒋英) 7934 (HN).

Yunnan: Cheng-hsiung (镇雄), H. T. Tsai (蔡希陶) 52249, 52265 (HKM); Kwang-nan (广南), C. W. Wang (王启无) 87635 (HKM).

与亨氏荚蒾 *V. henryi* Hemsl. 接近, 但那一种的小枝深褐色或褐色, 叶的侧脉 7—9 对, 花序圆锥形, 与本种有别。它还同短球荚蒾 *V. brachybotryum* Hemsl. 相近似, 但本种的小枝平滑, 叶较薄而无毛, 花序伞房式 (非圆锥式), 疏被小柔毛 (非密被簇状短毛)。在外形上它还和少花荚蒾 *V. oliganthum* Batal. 相似, 但那个种的花冠筒状, 花序较小, 具少数花, 叶的锯齿较疏而明显地内弯。

(2) 苹果叶亚种 新亚种

subsp. **malifolium** Hsu, subsp. nov.

Differt a subspecie praecedenti praesertim ramulis dilute griseobrunneis, foliis brevioribus latoribusque, ellipticis usque obovatis, 5—9.5 cm longis, 3—4.5 cm latis. Foliis ambitu *V. erubescens* Wall. comparabilibus sed subtus in axillis nervorum fasciculato-barbatis, ramis ramulisque distincte elevato-lenticellatis, corolla rotata facile differt.

Yunnan: Shwang-po (双柏), Fa-piao (法腰), Pai-chu-shan (白竹山), alt. 2380m, roadside, mountain slopes, in lax woods, common, shrub, 4m high, flowers white, Inst. Bot. Kunming Station 489 (Type,

* HNU=Herb. Depart. Biol., Nanking Univ., Nanking.

HKM), 426 (HKM, HP), W. C. Yin (尹文清) 587, 588 (HKM, HP); King-tung (景东), P. Y. Chiu (邱炳云) 53386 (HKM), M. K. Li (李鸣岗) 1940, 3066, 3127 (HKM).

与原亚种 *subsp. corymbiflorum* 的区别在其小枝淡灰褐色, 小叶较宽和短, 椭圆形至倒卵形, 长 5—9.5 厘米, 宽 3—4.5 厘米。叶形可与红荚蒾 *V. erubescens* Wall. 相比, 但本亚种叶下面脉腋有簇状髯毛, 枝与小枝有明显凸起的皮孔, 花冠轮状, 故易区别。

裸芽组 Sect. *Lantana* Spach

维氏荚蒾

Viburnum veitchii C. H. Wright in Gard. Chron. ser. 3, **33**: 257 (1903).

(1) 维氏荚蒾

subsp. veitchii

(2) 壮大亚种 新亚种 图版十三

subsp. magnificum Hsu *subsp. nov.* Pl. 13.

A subspecies *veitchii* differt praecipue foliis inflorescentiis fructibusque toto majoribus. *V. buddleifolium* C. H. Wright foliis angustioribus, corolla majore, staminibus inclusis distat.

Folia ovato-oblonga vel longe ovata, 10—19 cm longa, 4.5—11.5 cm lata, apice breve acuminata, basi subcordata; petioli 2.5—3 cm longi. Cyma 8—9 cm diametro, radiis primariis 7; ovarium 4 mm longum; calycis lobi ovati, 0.5 mm longi, sparsim fasciculato-puberuli; corolla rotato-campanulata, circ. 7 mm diametro, lobis subrotundatis, 2 mm longis, tubo paulo longioribus; stamina corollam superantia. Drupa oblongo-globosa, 1.3 cm longa, putamine in circuitu elliptico, 9 cm longo, 6 mm lato.

Chekiang: West Tien-mu-shan (西天目山), rocks, shrub 3m high, leaves somewhat brownish below, fruits black, 22. IV. 1954, S. J. Chao (赵兴如) 12 (Type, HF), H. C. Chu (朱和卿) 816, 989 (HN), Y. Y. Ho (贺贤育) 21093, 25467, 29023, 31071 (HH*), W. C. Cheng (郑万钧) 2318 (HP), H. Migo (御江久夫) s. n. (HN), M. P. Teng (邓懋彬) 4302 (HN), P. C. Tsoong (鍾补求) 3872 (HP); Chang-hua (昌化), Y. Y. Ho (贺贤育) 23705 (HH), C. C. Cheng & C. F. Chang (郑朝宗、张朝芳) 5637 (HF); without precise locality, Y. L. Keng (耿以礼) 635, 1927 (HP).

与原亚种维氏荚蒾 *subsp. veitchii* 的区别主要在其叶、花序和果实均较大。

(3) 圆叶亚种 新亚种

subsp. rotundifolium Hsu, *subsp. nov.*

Differt a subspecie *veitchii* praesertim tota planta minore, foliis suborbicularibus, apice plerumque rotundatis, margine obscure crenulato-denticulatis.

Frutex circ. 2 m altus. Folia suborbicularia, 3.5—6 cm longa, 3—5 cm lata, apice subrotundata vel obtusa, margine obscure crenulato-denticulata, nervis primariis utrinsecus 5—6. Cyma circ. 4 cm diametro, flores in radiis ordinis primarii vel secundarii siti; corolla dilute rosea, circ. 5 mm diametro, lobis 2 mm longis, tubo 1.8 mm longo.

Yunnan: Te-ching (德钦), Hung-po (宏坡), La-ti-lin-go (拉低令故), alt. 3,000m, among forest on mountain slope, shrub, 2m high, flowers pale rosy-pink, common, 2. IX. 1937, T. T. Yü (俞德浚) 10017 (Type, HKM; HP), 8318 (HKM), 9644, 10127 (HKM, HP), K. M. Feng (冯国楣) 5786 (HP).

* HH=Herb. Haugchow Bot. Gard., Hangchow.

这个亚种与原亚种 *subsp. veitchii* 的主要区别在其全体较小, 叶近圆形, 先端通常圆, 边具不明显的钝小牙齿。

大叶组 Sect. *Megalotinus* (Maxim.) Rehd.

光果荚蒾 新种

Viburnum leiocarpum Hsu, sp. nov.

(1) 光果荚蒾 (原亚种)

var. *leiocarpum*

Proximum certe *V. sambucino* Blume quod ovariis dense puberulis, fructibus maturitate caeruleo-nigris, inflorescentiis pilis densioribus instructis, pedunculis longioribus, bracteis lanceolatis, corollae lobis plerumque tubo longioribus, foliis plus minus coriaceis, subtus in axillis nervorum barbigeris facile distinguitur.

Frutex vel arbor parva ad 10 (–15) m alta. Rami teretes, glabri, cortice griseo-brunneo lenticellato tecti; ramuli leviter quadriangulari, primo sparse pubescentes, deinde glabrescentes. Folia chartacea, elliptico-usque obovato-oblonga, 10–18 (25) cm longa, 4.5–8 (–9) cm lata, apice subito breviterque acuminata, basi attenuata vel obtusa, integra, siccitate margine parum revoluta, supra laete atro-viridia, in costa tantum sparse pubescentia, subtus pallidiora, praeter costam nervosque consperse pilosos glabra, basi constanter utroque latere quisque una glandula maculosa subconvexa instructa, nervis primariis utrinsecus 5–7, arcuatis, juxta marginem prorsus et inter se conjunctis, sicut costa media supra levissime impressis, subtus prominente elevatis, nervis secundariis transversis, subtus distincte elevatis; petioli 2.5–5 cm longi, sparse pubescenti. Cyma umbelliformis, circ. 9 cm diametro, sparse fulvo-fasciculatopuberula, pedunculo crasso, 1.5–3 cm longo; radii primarii 4–5, 2–3 cm longi; bractee bracteolaeque plerumque minutissimae, caducae; ovarium cylindrico-obconicum, circ. 1 mm longum glabrum; calycis lobi late deltoidei, acuti, brevissimi; corolla alba, rotata, circ. 3.5 mm diametro, lobis ovato-rotundatis, circ. 1 mm longis, tubo paulo brevioribus; stamina corolla longe exserta, corollae basi affixa, filamentis leviter compressis, in alabastro inflexis circ. 5 mm longis, antheris oblongis, circ. 1 mm longis. Drupa rubra, ovoidea, glabra, 5–7 mm longa, circ. 5 mm crassa, apice abrupte acuta, basi rotundata, putamine circ. 6 mm longo et 5 mm lato, dorso 2—, ventre 3-sulcato.

Yunnan: Ping-pien (屏边), alt. 1100m, in ravine, small tree 20 feet high, flowers white, 20. VI. 1934, H. T. Tsai (蔡希陶) 62338 (Type, HP; HKM, HN, HSC), 60489 (HKM, HSC, HN), 60734 (HP, HSC), 61187 (HKM, HSC, HP, HN), 61504 (HKM, HSC), P. Y. Mao (毛品一) 2244 (HKM), 2396 (HKM, HP), C. W. Wang (王启元) 83016 (HKM); Meng-tsz (蒙自), T. N. Liou (刘慎谔) 18692 (HSC, HP).

无疑与接骨木荚蒾 *V. sambucinum* Blume 最为接近, 但那个种的子房密被小柔毛, 果成熟时蓝黑色, 花序被密毛, 总花梗较长, 苞披针形, 花冠裂片大都长于冠筒, 叶多少带革质, 下面脉腋有髯毛, 易与本种区别。

(2) 斑点变种 新变种

var. **punctatum** Hsu, var. nov.

Differt a varietate praecedenti ramulis petiolis inflorescentiisque fulvo-tomentosis, foliis utrinque glanduloso-punctulatis, supra fasciculato-pubescentibus, subtus toto vel tantum costa media nervisque pubescentibus.

Yunnan: Si-chow (西畴), K. M. Feng (冯国楣) 11755 (HKM, HP); Ping-pien (屏边), alt. 1500m, in ravine, shrub, 4 feet high, flowers green, 15. VII. 1934, K. M. Feng (冯国楣) 62656 (Type, HSC; HKM), H. T. Tsai (蔡希陶) 61087 (HKM), P. Y. Mao (毛品一) 2139, 2520 (HKM); Ma-li-po (麻栗坡), K. M. Feng (冯国楣) 12769 (HKM).

与上述原变种 var. *leiocarpum* 的区别在其小枝、叶柄及花序均被黄褐色绒毛, 叶两面有小腺点, 上面被短簇状毛, 下面全部或仅中脉及侧脉被短毛。

湖北荚蒾

Viburnum hupehense Rehd. in Sargent, Trees et Shrubs 2: 116 (1908).

(1) 湖北荚蒾

subsp. **hupehense**

(2) 北方亚种 新亚种

subsp. **septentrionale** Hsu, var. nov.

Differt a varietate praecedenti foliis latioribus, rotundato-ovatis usque late ovatis, 6—10 cm longis, 5.5—9 cm latis, basi truncatis vel subrotundato-cuneatis, margine remote crenato-dentatis, supra simpliciter bifurcateve albido-strigillosis, subtus flavido-punctulatis, petiolis 2—3 cm longis.

Shensi: Shang-hsien (商县), T. P. Wang (王作宾) 15404, 15472, 16159 (HP); Mien-hsien (沔县), T. P. Wang (王作宾) 9249, 9250 (HP); Yang-hsien (洋县), T. N. Liou (刘慎谔) 3713, 3715 (HP); Fo-ping (佛坪), K. T. Fu (傅坤俊) 4677; T. N. Liou (刘慎谔) 3313 (HP); Tai-pai-shen (太白山), T. P. Wang (王作宾) 1596, 6766, T. N. Liou (刘慎谔) 135, 136, 173, 200, 1388, 1740, 1860, 1953, 3157, 3190 (HP); Nan-wu-tai-shan (南五台山), T. N. Liou (刘慎谔) 20775 (HNF*); Hwa-shan (华山), W. Y. Hsia (夏纬瑛) 4335 (HP), T. N. Liou (刘慎谔) 10775, 10779, 10780 (HP); Ngo-hsien (郃县), P. S. Kuo (郭本兆) 354 (HP); without precise locality, C. H. Wang (王清华) 788 (HP).

Kansu: Li-hsien (礼县), T. P. Wang (王作宾) 4429 (HP); Si-ku (西固), T. P. Wang (王作宾) 14627 (HP); Tien-shui (天水), K. M. Liou (刘继孟) 10096 (HP).

Shansi: Ling-kiu (灵邱), Tai-hang-shan (太行山), K. M. Liou (刘继孟) 7606 (HP); Ling-shih (灵石), Inst. Bot. Shansi Exped. (植物所山西队) 384 (HP); Si-hsien (隰县), T. P. Wang (王作宾) 2947 (HNF); Chung-yang (中阳), Inst. Bot. Yellow River Exped. (植物所黄河队) 2098 (HP), Inst. Bot. Chung-yang Exped. A (植物所中阳甲队) 103 (HP).

Hopeh: Nei-kiu (内邱), S. Y. Liou (刘鑫源) 326 (Type, HP), 1314, 1338 (HP), Y. Liou (刘瑛) 12299 (HSC); Yi-hsien (易县), K. T. Fu (傅坤俊) 150 (HP); Tsan-hwang (赞皇), S. Y. Liou (刘鑫源) 820 (HP); Si-ling (西陵), F. Tsao (赵福) 269 (HP); Chi-hsien (磁县), H. F. Chow (周汉藩) 43234 (HP), Y. Liou (刘瑛) 12316 (HP).

Honan: Lu-shih (卢氏), K. M. Liou (刘继孟) 4735 (HNF); Yu-chai-shan (俞家山?), K. S. Hao (郝景盛) 3716 (HP).

Szechuan: Cheng-kow (城口), T. L. Dai (戴天伦) 101496 (HP).

此亚种与原亚种 subsp. *hupehense* 的区别在其叶较宽, 圆卵形至阔卵形, 长 6—10 厘米, 宽 5.5—9 厘米, 基部楔形或近圆状宽楔形, 边缘具波状疏牙齿, 上面被贴生白色简单

* HNF=Herb. Coll. Forest. Nanking, Nanking.

微毛或叉状毛,下面有黄白色腺点,叶柄长2—3厘米。

荚蒾

Viburnum dilatatum Thunb. Fl. Jap. 124 (1784).

(1) 荚蒾

var. **dilatatum**

(2) 大叶变种 新变种

var. **macrophyllum** Hsu, var. nov.

A varietate *dilatato* recedit foliis putaminibusque majoribus.

Ramuli juveniles, petioli, inflorescentiaeque toto pilis flavescentibus tomentoso-hirsuti. Folia ampla, rotundata vel ovato-rotundata, 8—13 cm longa, 6—11 cm lata, apice subito breviterque caudato-acuminata, basi rotundata, margine undulato-denticulata. Corymba 11 cm diametro. Drupa major, putamine 7—8 mm longo, 5—6 mm lato.

Hunan: Heng-shan (衡山), Nan-yueh (南岳), P. G. Tsoong (鍾补勤) 1354, S. C. Chun (陈少卿) 3242 (Type, HSC); I-chang (宜章), P. H. Liang (梁宝汉) 83716 (HK).

Kiangsi: Mu-fu-shan (幕阜山), Y. K. Hsiung (熊耀国) s. n. (HN); Wu-kung-shan (武功山), Inst. Bot. Kiangsi Exped. (植物所江西队) 376, 1699 (HP).

Kwangtung: Yu-yuan (乳源), S. K. Lau (刘心祈) 28818 (HK), S. P. Ko (高锡朋) 53675, 54668, C. Wang (黄志) 43980 (HSC); Lok-chong (乐昌), C. L. Tso (左景烈) 21124, C. S. Chu (朱志淞) 363 (HSC); Lien-nan (连南), P. C. Taam (谭沛祥) 58884 (HSC).

此变种的叶和果核都比原变种 var. *dilatatum* 为大。

长伞梗荚蒾 新种 图版十四

Viburnum longiradiatum Hsu et S. W. Fan, sp. nov. Pl. 14.

Species indumento *V. dilatato* Thunb. similis est quod differt staminibus longioribus, corollam valde superantibus, foliis obovatis, basi cuneatis usque late cuneatis, subtus punctulatis et in axillis nervorum pilis congestis instructis. Haud dissimile etiam *V. brevipeti* Rehd. quod petiolis brevissimis, foliis subtus punctulatis, fructibus minoribus distat.

Frutex 1 m altus. Ramuli hornotini patente lutoso-hirsuti, annotini purpureo-brunnescentes, glabri vel sparsissime hirsuti. Folia papyracea, ovata, late ovata, obovato-rotundata usque oblonga, 5—10 cm longa, 4—5.5 cm lata, apice abrupte breviter caudato-acuminata, acumine ipso 5—10 mm longo, basi late cuneata ad rotundata, margine undulato-dentata, dentibus mucronatis plerumque ciliolatis, supra viridia, primo pilis simpliciter conspersa, dein tantum ad costam nervosque lutoso-hirsuta, subtus pallidiora, densiore fasciculato-pubescentia, in costa nervisque lutoso-hirsuta, epunctulata, nervis primariis utrinsecus 7—9, subparallelis et ad dentes stricte exeuntibus, sicut costa media supra parum impressis, subtus prominente elevatis, nervis secundariis transversis, subtus parum elevatis; petioli 1—2 cm longi, dense patenteque lutoso-hirsuti; stipulae subulatae, 2 mm longae vel nullae. Cyma corymbiformis, 4—8(—14) cm diametro, pilis lutosi crebris patentibus confertis, demum sensim sparsioribus vestita, pedunculo 1.5—4 cm longo; radii primarii 5—7; bracteae caducae; bracteolae lineari-lanceolatae, 2 mm longae, deciduae; flores in radiis ordinis se-

cundi vel tertii siti; ovarium cylindricum, sparsim simpliciterque pubescens, $2\frac{1}{4}$ mm longum; calycis lobi deltoidei vel orbiculares, simpliciter pubescentes et ciliolati; corolla alba, rotata, circ. 6 mm diametro, extus simpliciter pubescens, lobis ovatis, 3 mm longis, tubo longioribus; stamina corollam paulo superantia, antheris filamentis 3-plo brevioribus, ellipticis, flavidis; stylus lobas calycinas paulo superans, cum stigmate 1 mm longus. Drupa rubra, putamine compresso, late ellipsoideo-ovoideo, apice acuto, basi rotundato vel late cuneato, 7.5 mm longo, 5 mm lato, ventre 3—, dorso 2-sulcato.

Szechuan: Tien-chuan (天全), H. L. Tsiang & al. (蒋兴馨等) 34258 (Type, HSC; HP, HK), 34298, 34615, 34734, 35223, 35266 (HP, HSC, HK), 34884 (HP), 37761 (HSC, HK); O-mei-shan (峨眉山), Y. Y. Ho (贺贤育) 6132 (HN), K. H. Yang (杨光辉) 55042, 55462, 56338 (HP), H. L. Tsiang & al. (蒋兴馨等) 30749 (HP, HN, HK), T. N. Liou (刘慎谔) 10550 (HP); Cheng-kow (城口), T. L. Dai (戴天伦) 105648 (HP); Ping-shan (屏山), Iping Region Econ. Pl. Exped. (四川经济植物宜宾采集队) 1043 (HP); without precise locality, C. W. Yao (姚仲吾) 3160 (HP, HKM), T. Tang (唐进) 23337 (HKM, HN).

Yunnan: Yung-shan (永善), H. T. Tsai (蔡希陶) 51073 (HKM).

本种的幼枝、叶柄及花序均被开展的土黄色粗毛，与荚蒾 *V. dilatatum* Thunb. 近似，但后者的雄蕊远超出花冠，叶倒卵形，基部楔形至宽楔形，下面有腺点，脉腋有簇聚毛。它还和短柄荚蒾 *V. brevipes* Rehd. 接近，但那个种的叶柄极短，叶下面有腺点，果较小。

黄褐绒毛荚蒾 新种

***Viburnum fulvotomentosum* Hsu, sp. nov.**

Species indumento valde peculiaris. Proximum videtur *V. fordiae* Hance quod indumento dissimile, foliis nervis lateralibus utrinsecus 6—7, petiolis brevioribus, 7—15 mm longis differt.

Frutex 1.5 m altus, ramulis hornotinis, foliis, petiolis, inflorescentiis, ovariis, calycinis lobisque dense crasseque fulvo-tomentosis. Ramuli annotini cortice griseo-brunneo lenticellato leviter longitudinaliter fissili tecti. Folia papyracea, elliptica vel late elliptica, 4—7 cm longa, 3.5—5 cm lata, apice subito in acumen producta, acumine ipso 3—5 mm longo, basi obtusa, margine crenato-dentato-serrata, serris cuspidatis, supra viridia, subtus pallidiora, utrinque primo praecipue in costa media nervisque fulvide fasciculato-tomentosa et pilis adpressis simplicibusque intermixta, dein secus costam nervosque sparsim pubescentia vel glabrescentia nervis primariis utrinsecus 8—9, parallelis et in dentibus mucronulatos excurrentibus, sicut costa media supra leviter impressis, subtus distincte elevatis; petioli 1—1.5 (—2.5) cm longi; stipulae nullae. Cyma corymbiformis, ad apicem ramuli bifoliat terminalis, 4—6 cm diametro, pedunculo 2—2.5 cm longo, sicut pedicellis fulvide fasciculato-tomentoso; radii primarii 5; ovarium cylindricum; calycis lobi anguste triangulares, apice acuti; corolla alba, rotata, circ. 5 mm diametro, extus sparsim fasciculato-tomentosa, lobis ovatis, circ. 1.5 mm longis, corollae tubo longioribus; stamina corollam superantia, circ. 2 mm altiora, antheris ellipsoideo-globosis, filamentis circ. 5-plo brevioribus; stylus calycem paululo superans. Drupa rubra, circ. 7 mm longa, praecipue apice pilis fasciculatis conspersa, putamine compresso, 7 mm longo, 4 mm lato, ventre 3—, dorso 2-sulcato.

Kiangsi: Lu-shan (庐山), M. J. Wang (王名金) 1542 (Type, HP), C. S. Yang (杨祥学) 10886 (HSC), T. C. Lu (陆廷琦) 262 (HF), P. K. Li (李丙贵) 128 (HSC), H. H. Hu (胡先驌) 2237 (HP); Sun-wu (寻鄔), Shang-shan (瑯山), Sophomore 1312 (HP).

本种以全体被黄褐色绒毛而显得十分特出。看来它和福氏荚蒾 *V. fordiae* Hance 最接近,但那一种的被毛不同,叶具6—7对侧脉,叶柄较短,长7—15毫米,与本种有别。

台湾荚蒾

Viburnum formosanum Hayata in Journ. Coll. Sci. Univ. Tokyo **30**: 132 (Mat. Fl. Formos.) (1911); Icon. Pl. Formos. **2**:69, pl. 1 (1912).

Viburnum subglabrum Hayata, Icon. Pl. Formos. **8**:35 (1917). -syn. nov.

Viburnum luzonicum Rolfe var. *formosanum* (Hance) Rehd. f. *subglabrum* (Hayata) Kaneh. et Sasaki ex Sasaki, Cat. Govern. Herb. Formos. **485** (1930), nom.

Viburnum morrisonense sensu Hayata, Icon. Pl. Formos. **2**:70 (1912); **9**:43, fig. 21 (1920). -Non Hayata in Journ. Coll. Sci. Univ. Tokyo **30**:133 (Mat. Fl. Formos.) (1911).

(1) 台湾荚蒾

subsp. **formosanum**

Taiwan: Sozan, Taihoku-shu, T. Tanaka & Y. Shimada 11007 (HSC).

Kern* 和李惠林** 将早田文藏所发表的三个种——*V. formosanum* Hayata, *V. subglabrum* Hayata 与 *V. morrisonense* Hayata 都归并在吕宋荚蒾 *V. luzonicum* Rolfe 或其变种 var. *formosanum* (Hance) Rehd. 之下作为异名。经仔细研究,我们获得以下不同的结果: (a) 根据早田文藏关于美丽荚蒾的模式记载和附图,这个种的花冠显然是没有毛的,叶被简单的长毛,但在吕宋荚蒾则花冠有明显的毛,叶被簇状或叉状毛。鉴于花冠之有无被毛以及叶的不同被毛在齿叶组 Sect. *Odontotinus* Rehd. 内具有重要的分类价值,因此我们认为美丽荚蒾应该是一个独立的种; (b) *V. subglabrum* Hayata 的模式记载和美丽荚蒾几乎完全一致,无疑是后者的一个异名; (c) 新高山荚蒾 *V. morrisonense* Hayata, 从其模式记载和附图来看,花冠也是无毛的,因此不象是吕宋荚蒾。其次,它那宽大得多和呈倒卵形的叶,与其说和美丽荚蒾或吕宋荚蒾相似,倒不如说和荚蒾 *V. dilatatum* Thunb. 相接近。还值得注意的是这个种的模式标本系采自海拔三千余米的高山地带,而美丽荚蒾和吕宋荚蒾垂直分布一般都不超过一千米。综上所述,新高山荚蒾很可能是一个独立的种。但必须指出,早田文藏本人对于这个种的概念也不是很明确的,他在《台湾植物图谱》第二卷与第九卷所描写的 *V. morrisonense* Hayata, 实际上却是美丽荚蒾而已经不是他第一次所发表的那个种了; (d) 吕宋荚蒾显然是一个多型的种,尤其以它的叶形、锯齿和被毛的变化最为复杂,而且这些变化又多半是逐渐过渡的。过去学者曾经根据这个种的叶的不同变化,定了不少种下等级的学名,现在看来也许都不能成立。笔者曾经试图把我所看到的几份菲律宾的吕宋荚蒾标本 (*F. Canicosa* 30029, *Clemens* 16168, HSC) 和国产的所谓 “*V. luzonicum* var. *formosanum* (Hance) Rehd.” 标本区分开来,但

* Kern, J. H. in Reinwardtia **1**:161 (Gen. *Viburnum* Malaysia) (1951).

** Li H. L.: Woody Flora of Taiwan 896 (1963).

未获结果。至于 *V. luzonicum* var. *formosanum* (Hance) Rehd. (系根据 *V. cerosum* Thunb. var. *formosanum* Hance), 因为我们没有看到模式标本, 目前还不能作出结论。

(2) 光果亚种 新亚种 图版十五

subsp. *leiogynum* Hsu, subsp. nov. Pl. 15.

A subspecie praecedenti pedunculo 0—5 mm longo, ovario glabro, drupa compresso-globosa, apice abrupte acuta, stylo lobas calycinas valde superante, putamine compresse ovoideo-globoso, 5—6 mm longo, 4—5 mm lato, dorso plano-convexo, leviter 2-, ventre 3-sulcato differt.

Chekiang: Yun-ho (云和), K. K. Tsoong (鍾觀光) *D62* (Type, HP; HSC), Y. Y. Ho (賀賢育) *3611* (HN); Lung-chuan (龙泉), S. Y. Chang (章绍尧) *2861, 2955*, Y. Y. Ho (賀賢育) *21955* (HH); Tai-shun (泰顺), S. Y. Chang (章绍尧) *3805, 3807, 3809, 3811* (HH); without precise locality, K. K. Tsoong (鍾觀光) *322* (HP).

Fukien-Kiangsi border: Wu-yi-shan (武夷山), M. J. Wang (王金名) *1551* (HN).

Szechuan: Nan-chuan (南川), K. F. Li (李国风) *62045* (HP).

Kwangs: Ling-yun (凌云), A. N. Steward & H. C. Cheo (周鹤昌) *384* (HNU).

此亚种与原亚种 subsp. *formosanum* 的区别在于其总花梗极短, 长 5 毫米或不具, 子房无毛, 核果扁圆球形, 顶急尖, 宿存花柱长远超过萼裂, 核扁卵球形, 长 5—6 毫米, 宽 4—5 毫米, 背微凸起, 有 2 浅背沟和 3 浅腹沟。

披针叶荚蒾 新种 图版十六

Viburnum lancifolium Hsu, sp. nov. Pl. 16.

Species foliorum forma notabilis. Fructibus *V. sempervirenti* K. Koch valde similibus, quod foliis coriaceis ellipticis triplinerviis facile differt

Frutex 2 m altus. Ramuli dilute purpureo-brunnei, hornotini angulati, primo fasciculato-pubescentes et fasciculato-pilosi, deinde glabrescentes, annotini teretes. Folia papyracea, oblongo-lanceolata vel lanceolata, 9—19 cm longa, 2—4 cm lata, apice longe acuminata, basi rotundata vel obtusa, margine remote serrata, serris cuspidatis patentibusque, plerumque supra basin 1/3 integra, supra viridia, nitentia, in costa media pubescentia, subtus pallidiora, rufo-brunneo-glandulosa, in costa media nervisque bifurcato- vel simpliciter pubescentia, nervis primariis utrinsecus 7, ad dentes stricte exeuntibus, sicut costa media supra impressis, subtus elevatis, nervis secundariis reticulisque parallelis, parum elevatis; petioli 8—13 mm longi, dense fasciculato-hirsuti, estipulati. Cyma corymbiformis, terminalis, sub fructu 4—6.5 cm diametro, fulvide fasciculato-pubescent et pilis longioribus fasciculatis intermixta, pedunculo gracile, 1.5—3.5 cm longo. Flores ignoti. Drupa in inflorescentiae radiis ordinis secundi vel tertii nata, globosa, apice reciduis calycis loborum stylique coronata, calycis lobis deltoideis, circ. 1 mm longis, obtusis, sparsim fimbriatis, stylo cylindrico, stigmate capitato, leviter 3-lobulato, lobos calycinis superante vel incluso, putamine compresso, fere quadrangulato, 5—6 mm longo et lato, ventre concavo et leviter 2-sulcato, dorso convexo haud sulcato.

Chekiang: Lung-chuan (龙泉), S. Y. Chang (章绍尧) *3100, 3877, 3933* (HH), *4210* (HH, HP), Y.

Y. Ho (贺贤育) 21629, 22134, 22658 (HH); Chin-ning (景宁), S. Y. Chang (章绍尧) 5134 (HF), Y. Y. Ho (贺贤育) 24116 (HH); Li-shui (丽水), S. Y. Chang (章绍尧) 6253 (HF).

Fukien: Wu-yi-shan (武夷山), M. J. Wang (王名金) 1988 (HN); Nan-ping (南平), Futan Univ. Exped. (复旦大学综合调查队) 52307, 58275, 58382, 58481, 62234, 62326, 62419, 64229, 64296, 70052, 70247, 72354, 82015 (HF); Kien-ow (建瓯), Futan Univ. Exped. (复旦大学综合调查队) 58745, 58810 (HF); Sha-hsien (沙县), Futan Univ. Exped. (复旦大学综合调查队) 55519 (HF).

Kiangsi: Li-chuan (黎川), M. J. Wang (王名金) 2057 (Type, HP; HH, HN) 2122 (HP, HH).

这是一个很特殊的种, 其狭长、先端长渐尖的披针形叶在同组内并不多见。从果核的外形来看, 它和常绿荚蒾 *V. sempervirens* K. Koch 有关联, 但那个种的叶革质, 椭圆形, 叶脉基部三出, 易与本种区别。

陈氏荚蒾 新种

Viburnum chunii Hsu, sp. nov.

Viburnum glandulosum Chun in herb, non Salisb.

(1) 陈氏荚蒾 (原亚种)

subsp. **chunii**

(a) 陈氏荚蒾

var. **chunii** (原变种)

Species foliis subtus aureo-glandulosis insignis, inter species trinervias in sectione cum *V. hainanensi* Merr. et Chun et *V. sempervirenti* K. Koch comparabilis, quae differunt foliis coriaceis vel subcoriaceis, in sicco nigrescentibus, subtus nigro- vel fusco-punctulatis, putamine ventre distincte excavato.

Frutex 1 m altus. Ramuli griseo-brunnei, fere glabri, hornotini quadrangulares. Folia papyracea, elliptico-oblonga, 5—7 cm longa, 2—2.5 cm lata, apice acuminata, basi cuneata, margine anteriore remote serrata, serris plerumque 3—5-paribus, infra dimidium integerrima, supra viridia, opaca, ad costam sparse adpressequ pubescentia, subtus glaberrima, aureo-glandulosa, nervis primariis 4—5-jugis, subtus parum elevatis, quorum infimo subrecto paulo supra basin e costa media orto (unde folia triplinervia), interdum ultra medium laminam procurrente, ceteris supra medium ortis; petioli 6—8 mm longi, primo sparsim adpressequ flavescente pubescentes, dein glabrescentes, exstipulati. Cyma corymbiformis terminalis, adpresse fulvo-hirsuta, pedunculo 1.5 mm longo; bracteae bracteolaeque membranaceae, lineari-lanceolatae, parum puberulae atque ciliolatae, persistentes; flores in radiis ordinis primarii nati, breve pedicellati; ovarium campanulatum, glabrum; calycis lobi ovato-triangulares, obtusi, ciliati; corolla in alabastro purpurascens. Drupa rubra, putamine ovoideo, 7 mm longo, 5—6 mm lato obscure sulcato.

Kiangsi: Wu-kung-shan (武功山), Inst. Bot. Kiangsi Exped. (植物所江西队) 1090 (HP).

Kwangtung: Ju-yuan (乳源), S. P. Ko (高锡朋) 53647 (HSC); Lo-fu-shan (罗浮山), N. K. Chun (陈念劬) 41608 (HK); Sin-i (信宜), C. Wang (黄志) 38084 (HSC, HP); Yang-shan (阳山), P. C. Taam (谭沛祥) 60394 (HSC); Wai-tsap (怀集), Y. K. Lau (刘瑛光) 2590 (HSC, HH).

Kwangsi: North Lu-chuan (陆川), alt. 1330m, in thickets, shrub 1m high, flowers purplish in bud, rare, 14. VI. 1928, R. C. Ching (秦仁昌) 6036 (Type, HSC; HN); Ta-miao-shan-hsien (大苗山县), S. C. Chun (陈少卿) 17135 (HSC, HK); Ta-min-shan (大明山), T. S. Tsai (蔡灿星) 5342, 5485 (HK); Chuan-hsien

(全县), T. T. Chen (陈照宙) 52615, 52621 (HK); Chao-pin (昭平), Y. K. Li (李荫昆) 402514 (HK); Ping-nan (平南), C. Wang (黄志) 40346, 40351, C. T. Tsiang & M. S. Hsia (蒋承曾、夏民生) 4107, 4126 (HSC); Lung-sheng (龙胜), Kwang-fu Region For. Exped. (广福林区调查队) 1180 (HSC, HK, HP); Hing-an (兴安), S. L. Yu (余少林) 900032 (HSC, HK).

本种以其叶下面具金黄色腺点为最大特点。在同组内它堪与叶具基部三出脉的海南荚蒾 *V. hainanense* Merr. et Chun 及常绿荚蒾 *V. sempervirens* K. Koch 作比较, 但后两者的叶革质或亚革质, 干时变黑, 下面有黑色或栗褐色细点, 核果腹面明显地凹陷, 与本种明显不同。

(b) 具毛变种 新变种

var. **piliferum** Hsu, var. nov.

Differt a varietate *chunii* ramulis petiolis inflorescentisque dense adpresseve fulvo-brunneo-hirsutis vel fasciculato-pubescentibus, foliis supra prope marginem sparsim adpresso-pubescentibus, subtus in costa media nervisque paulum paubescentibus, in axillis nervorum pilis fasciculatis instructis.

Hunan: I-chang (宜章), P. H. Liang (梁宝汉) 83578, 83822 (HSC, HK), S. C. Chun (陈少卿) 2491, 2559 (HSC).

Kwangtung: Ju-yuan (乳源), S. K. Li (李学根) 201129 (HSC), S. K. Lau (刘心祈) 28831 (HSC, HK), C. P. Ko (高锡朋) 53511 (HSC, HK), 53577 (HSC), C. Wang (黄志) 42214, 43867 (HSC); Yun-fu (云浮), C. Wang (黄志) 37403 (HSC); Lien-hsien (连县), P. C. Taam (谭沛祥) 59824 (HSC); Yang-shan (阳山), S. K. Li (李学根) 201204 (HSC, HH); Lok-chong (乐昌), woods, shrub, leaves dull green above, fruits scarlet, 13. XI. 1931, S. P. Ko (高锡朋) 51847 (Type, HSC; HP).

Kwangsi: Ta-miao-shan-hsien (大苗山), S. C. Chun (陈少卿) 16432 (HK).

Szechuan: Nan-chuan (南川), K. F. Li (李国凤) 65069 (HP), Y. Y. Ho (贺贤育) 5425 (HN).

与原变种 var. *chunii* 的区别在其小枝、叶柄及花序均密被贴生黄褐色粗毛或簇状毛, 叶上面近边缘处疏被短伏毛, 下面脉上稍有短毛, 脉腋有簇聚毛。

(2) 郑氏亚种 新亚种

subsp. **chengii** Hsu, subsp. nov.

A subspecies *chunii* recedit foliis firme chartaceis, plus minusve rhomboideis, supra nitidis, subtus in axillis nervorum saepe pilis fasciculatis instructis, corymbis pilis fasciculatis (nec simplicibus longioribusque) tectis, pedunculo brevior.

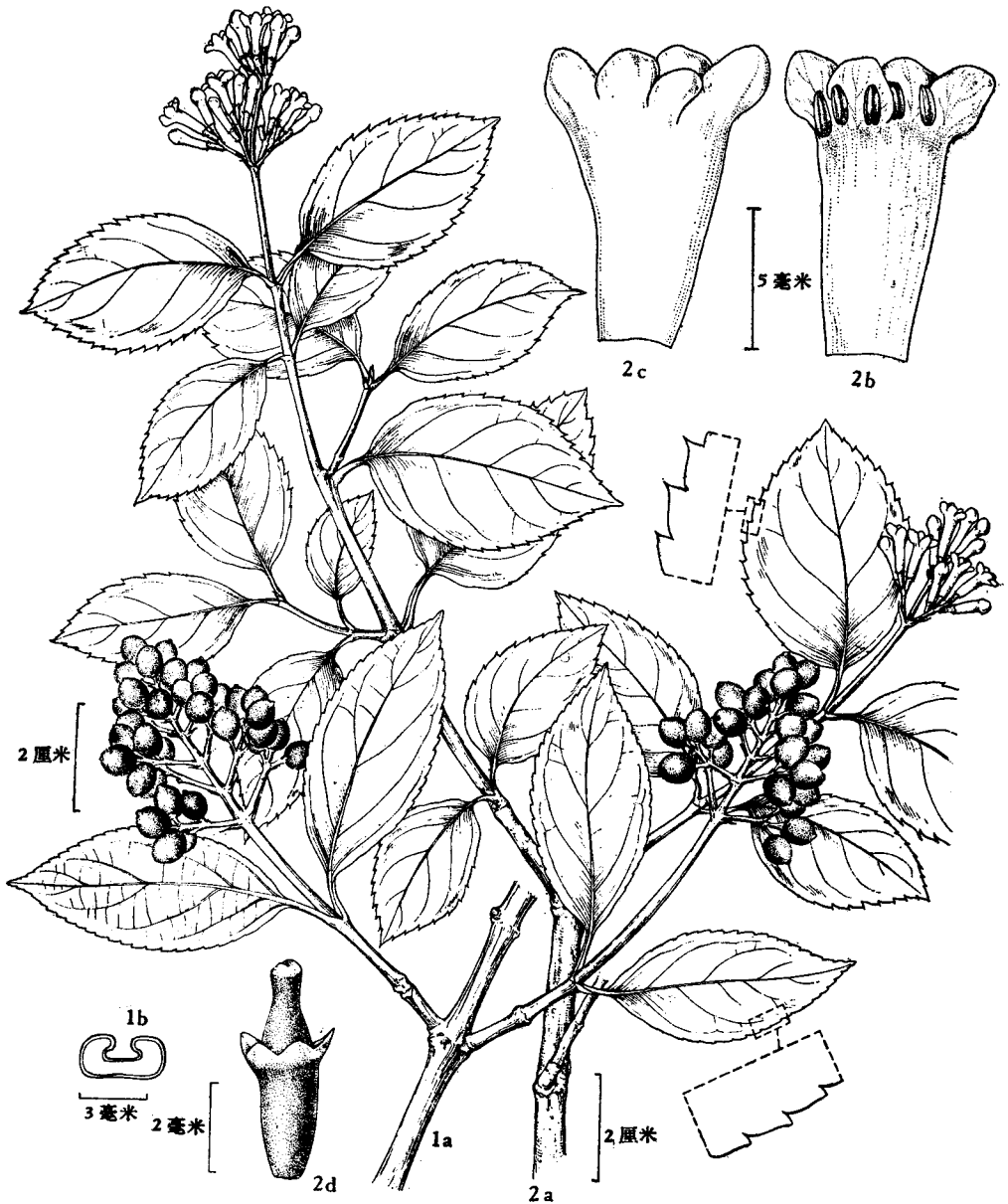
Anhwei: without precise locality, East. China Station (华东工作站) 6101 (HN).

Chekiang: Tai-shun (泰顺), mountain slope, in woods, shrub 2m high, flowers white, 5. VII. 1934, S. Chen (陈诗) 3526 (Type, HF); same locality, S. Y. Chang (章绍尧) 3598, Y. Y. Ho (贺贤育) 24021 (HH); King-ning (景宁), S. Y. Chang (章绍尧) 3955, Y. Y. Ho (贺贤育) 24435, 24468 (HH); Tien-tai-shan (天台山), Y. Y. Ho (贺贤育) 28270 (HH); Lung-chuan (龙泉), Y. Y. Ho (贺贤育) 22523 (HH); Hangchow (杭州), cult., H. C. Chu (朱和卿) 1699, Y. Y. Ho (贺贤育) 20574 (HH); West Wen-chow (温州), R. C. Ching (秦仁昌) 1851 (HSC).

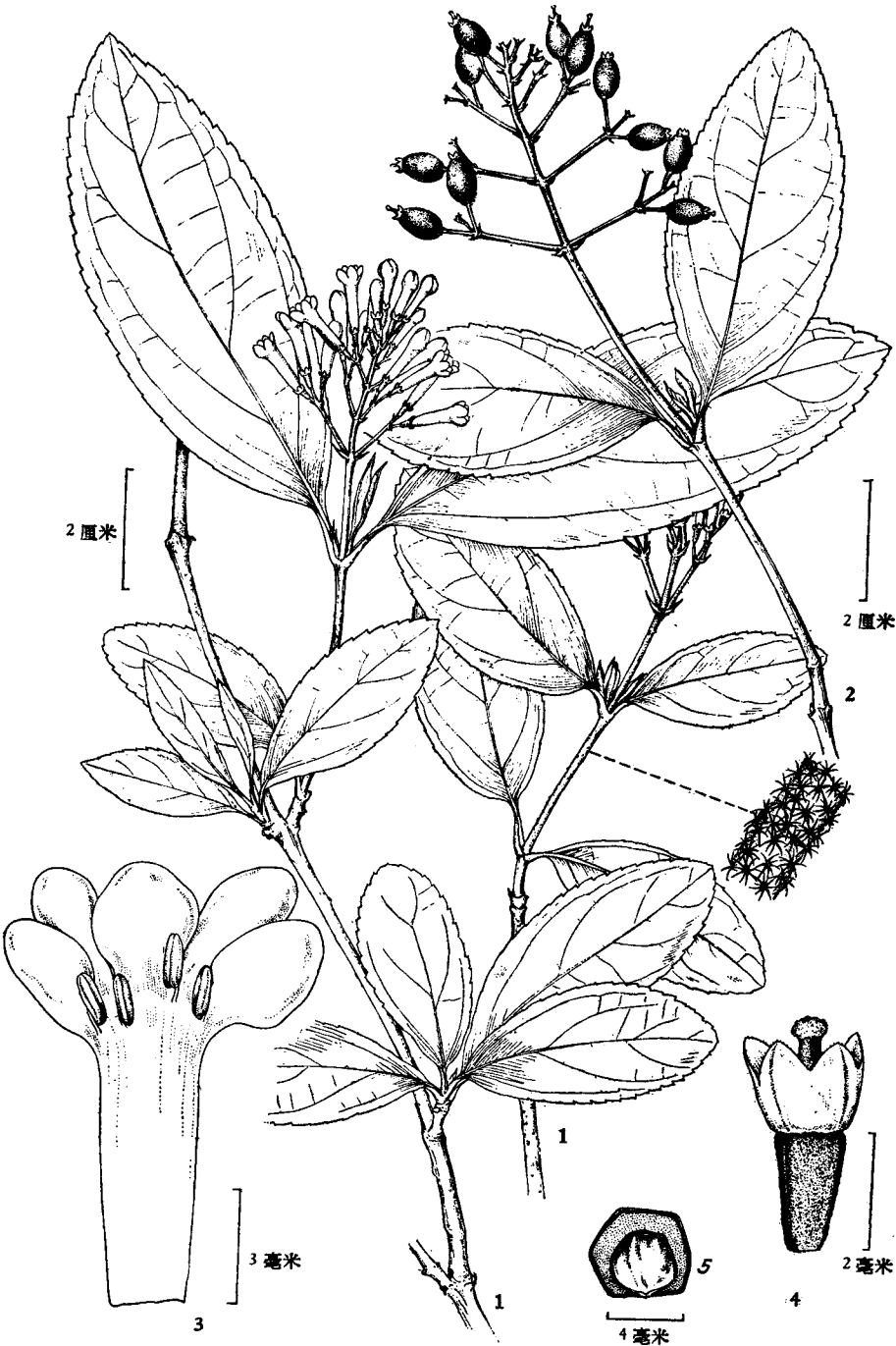
Kiangsi: Sun-wu (寻鄆), Sophomore 1317 (HP, HSC).

Fukien: Kien-ow (建瓯), Futan Univ. Exped. (复旦大学综合调查队) 52639 (HF).

与原亚种陈氏荚蒾 subsp. *chunii* 区别于其叶硬皮纸质, 多少带菱形, 上面光亮, 下面脉腋通常有簇聚毛, 伞房花序被簇状毛而非简单长毛, 总花梗较短。

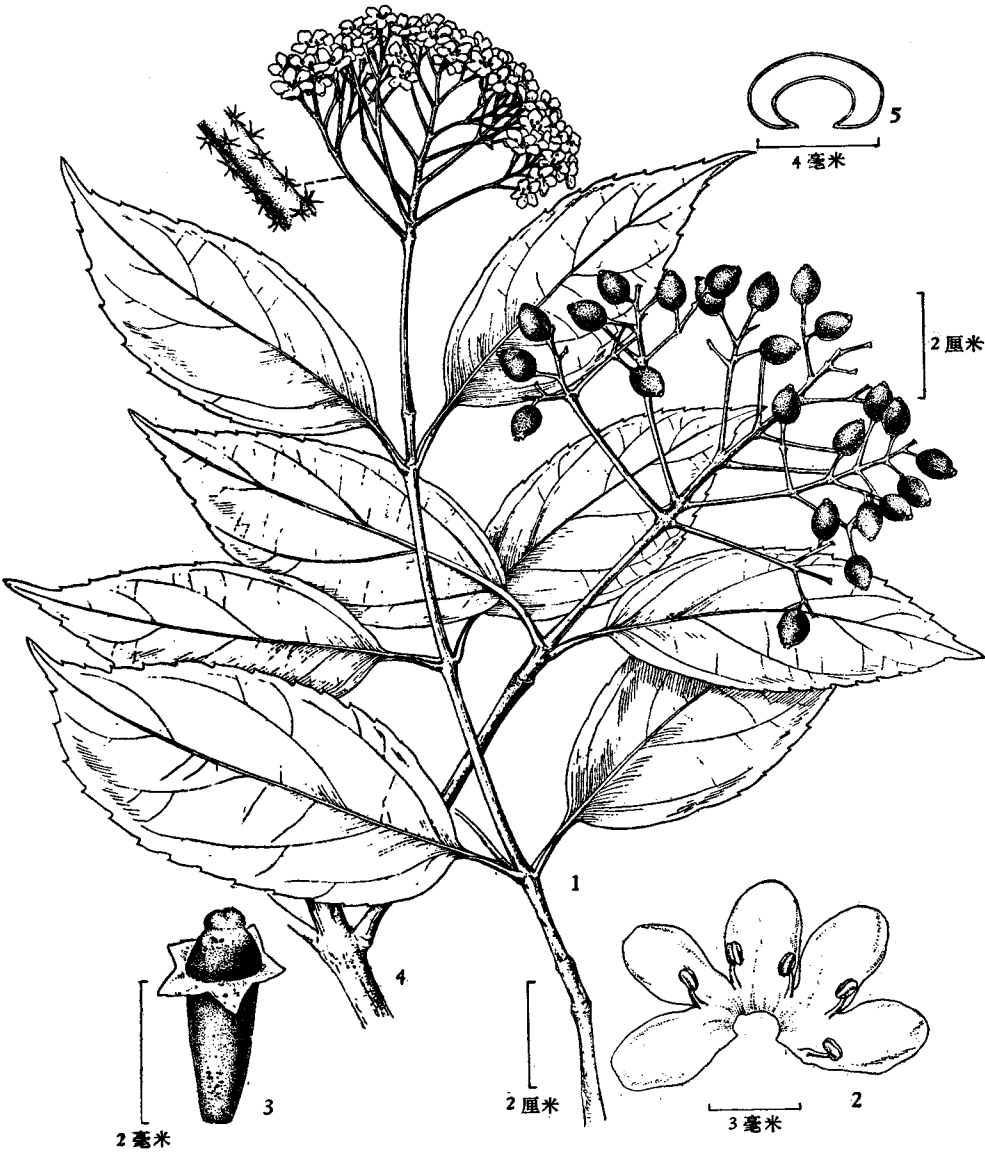


1. 秦氏荚蒾 *Viburnum chingii* Hsu var. *chingii*: a. 结果枝 (刘慎谔 21709), b. 果核的横切面;
2. 秦氏荚蒾展齿变种 *Viburnum chingii* Hsu var. *patentiserratum* Hsu: a. 开花枝 (王汉臣
2143); b. 展开的花冠内面, 示雄蕊; c. 展开的花冠外面; d. 除去花冠后的一朵花, 示柱头。



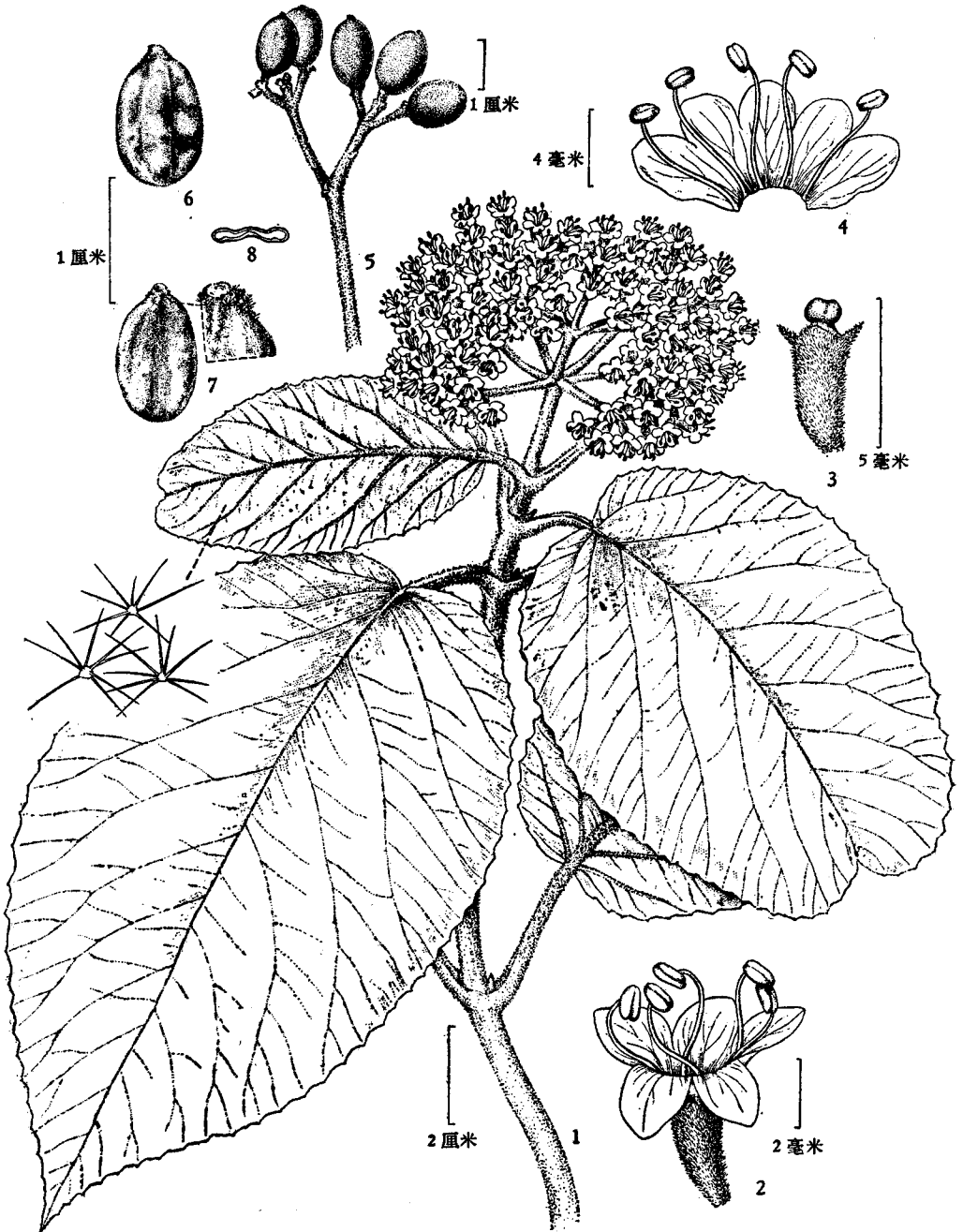
管花荚蒾 *Viburnum tubulosum* Hsu

1. 开花枝(邓志农 13370, 曾怀德 23391); 2. 结果枝(陈少卿 787); 3. 展开的花冠内面, 示雄蕊; 4. 除去花冠后的一朵花, 示柱头; 5. 果核的横切面。



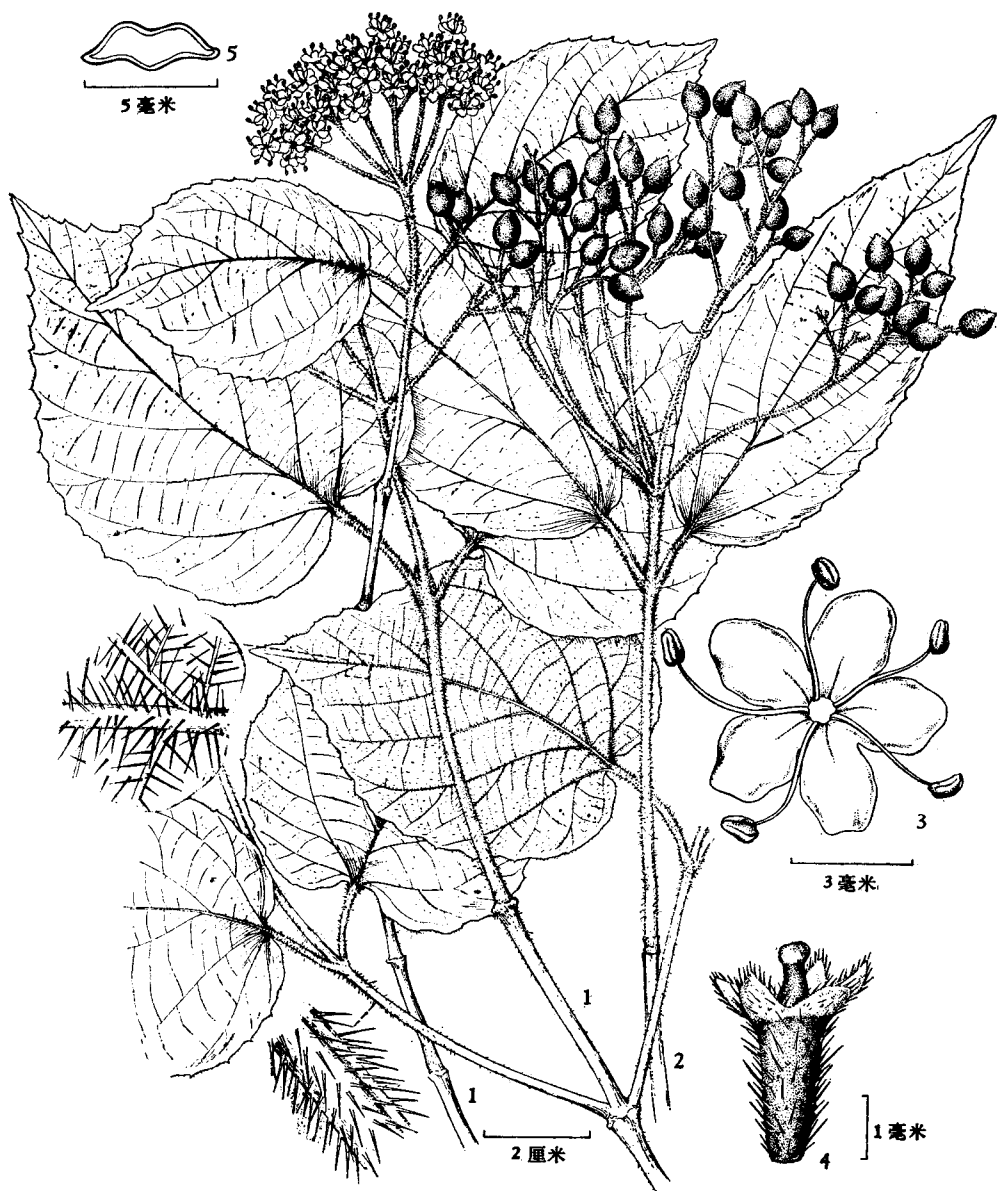
伞房荚蒾 *Viburnum corymbiflorum* Hsu et S. C. Hsu

1. 开花枝(邓世伟 90189); 2. 展开的花冠内面, 示雄蕊; 3. 除去花冠后的一朵花, 示柱头; 4. 结果枝(覃灏富、李中提 70935); 5. 果核的横切面。



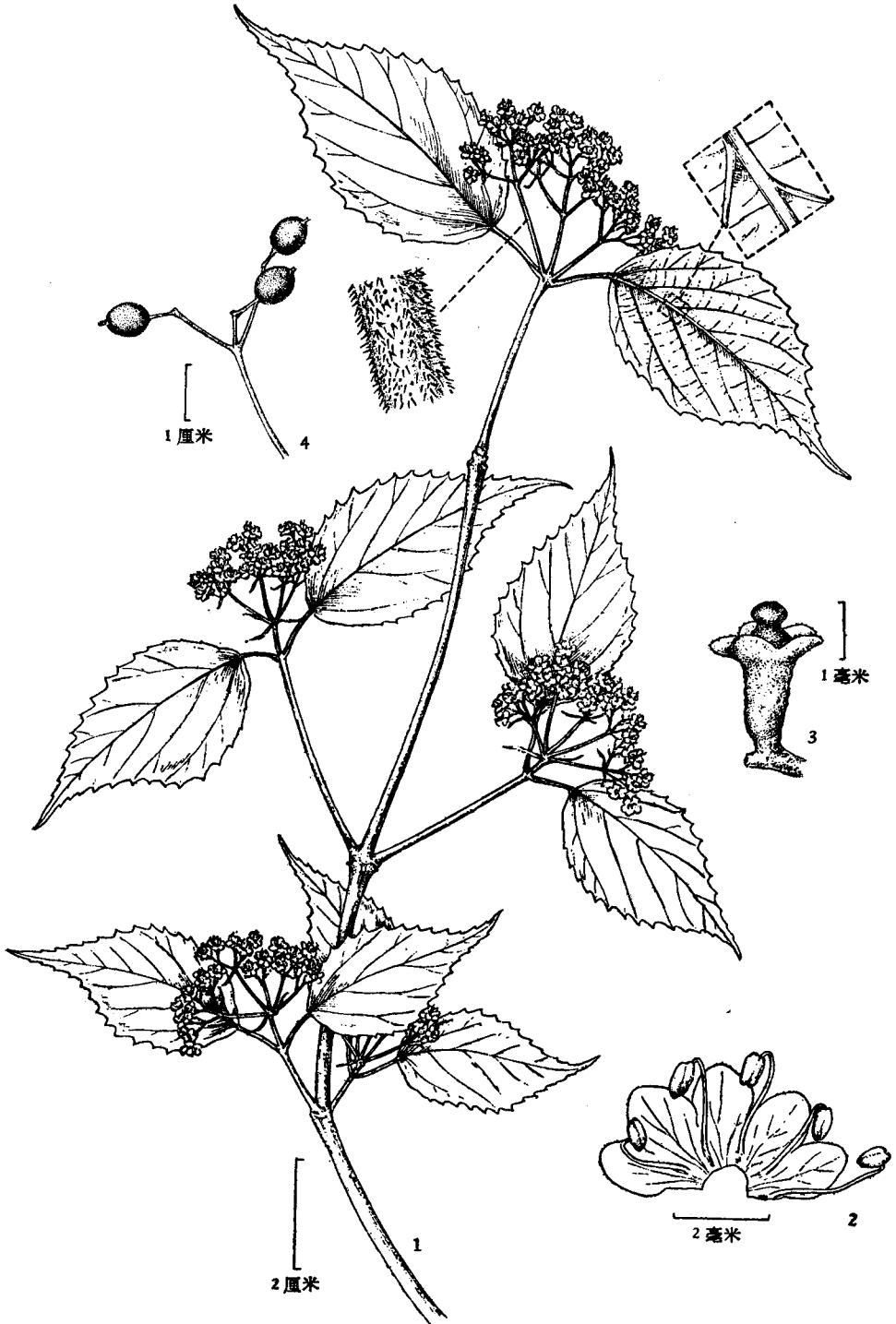
維氏莢蒾壯大亞種 *Viburnum veitchii* C. H. Wright subsp. *magnificum* Hsu

1. 开花枝(赵兴如 2); 2. 一朵花; 3. 除去花冠后的一朵花, 示柱头; 4. 展开的花冠内面, 示雄蕊; 5. 果序的一部分(朱和卿 816); 6. 果核的背面; 7. 果核的腹面; 8. 果核的横切面。



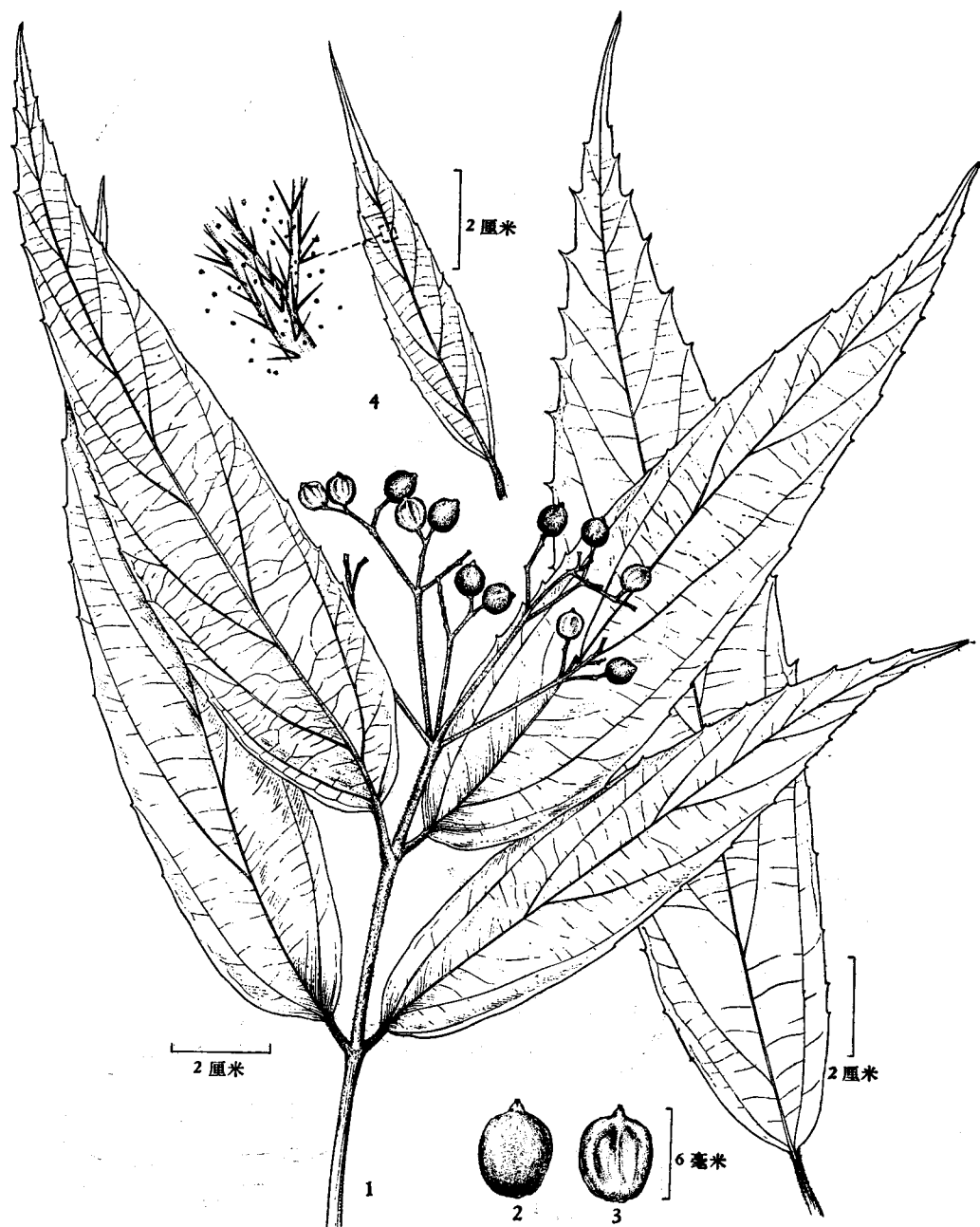
长伞梗荚蒾 *Viburnum longiradiatum* Hsu et S. W. Fan

1. 开花枝 (蒋兴肇等 34258); 2. 结果枝 (蒋兴肇等 35223, 35266); 3. 花冠的正面观;
4. 除去花冠后的一朵花, 示柱头; 5. 果核的横切面。



美丽荚蒾光果亚种 *Viburnum formosanum* Hayata subsp. *leiogynum* Hsu

1. 开花枝 (鍾觀光 D 62); 2. 展开的花冠内面, 示雄蕊; 3. 除去花冠后的一朵花, 示柱头;
4. 果序的一部分 (章绍尧 6862)。



披针叶荚蒾 *Viburnum lancifolium* Hsu

1. 果枝 (复旦大学综合调查队 72354); 2. 果核的背面; 3. 果核的腹面, 示二浅沟;
4. 一片嫩叶的下面, 似被毛及腺。